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### MISCELLANEOUS.

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85. Proposed by COOPER D. SCHMITT, A. M., Professor of Mathematics, University of Tennessee, Knoxville, Tenn.

Prove that at least one of the three sides of a rational right triangle must be divisible by 5.

86. Proposed by GEORGE LILLEY, Ph.D., LL. D., Professor of Mathematics, University of Oregon, Eugene, Oregon.

A gave two notes; one for  $a$  dollars at  $m$  per cent., and the other for  $b$  dollars at  $n$  per cent., annual interest. He is to make a monthly payment of  $c$  dollars. How much must be endorsed on each note in order to pay them off at the same time? What must be the payment on each if  $a=1900$ ,  $b=1800$ ,  $m=6$ ,  $n=7$ , and  $c=25$ ?

87. Proposed by A. H. HOLMES, Brunswick, Me.

Find  $f(x)$  from  $f(x+1) - f^2(x) = x$ .

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### NOTES.

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Dr. E. M. Blake, formerly instructor in mathematics in Purdue University, has been appointed as Honorary Fellow in Mathematics in Cornell University.

The two books, Whitehead's Universal Algebra and Killing's *Einführung in die Grundlagen der Geometrie*, which were particularly signalized in Halsted's Report on Progress in Non-Euclidean Geometry, have been entered in competition for the Lobachevski Prize of 1900.

On the twenty-fourth of December, 1899, the Physico-Mathematic Society of Kazan (Russia) celebrated a Jubilee in honor of the twenty-fifth year of professional and scientific service of its President, Professor A. Vasiliev. It is also the fifteenth year of his presidency. Professor Vasiliev has been an extraordinarily important figure in Russian science. Outside of Russia he has chiefly been known for his remarkable discourse on Lobachevski, Englished by Halsted. A German translation of his book on Tchebychev is to be published this month by Teubner at Leipzig. The first volume of an edition of Tchebychev's Collected Works, in French, has just appeared, edited by the academicians Markof and Sonine. It contains a very fine portrait of the great mathematician and the first thirty-four Memoirs of Vasiliev's list.